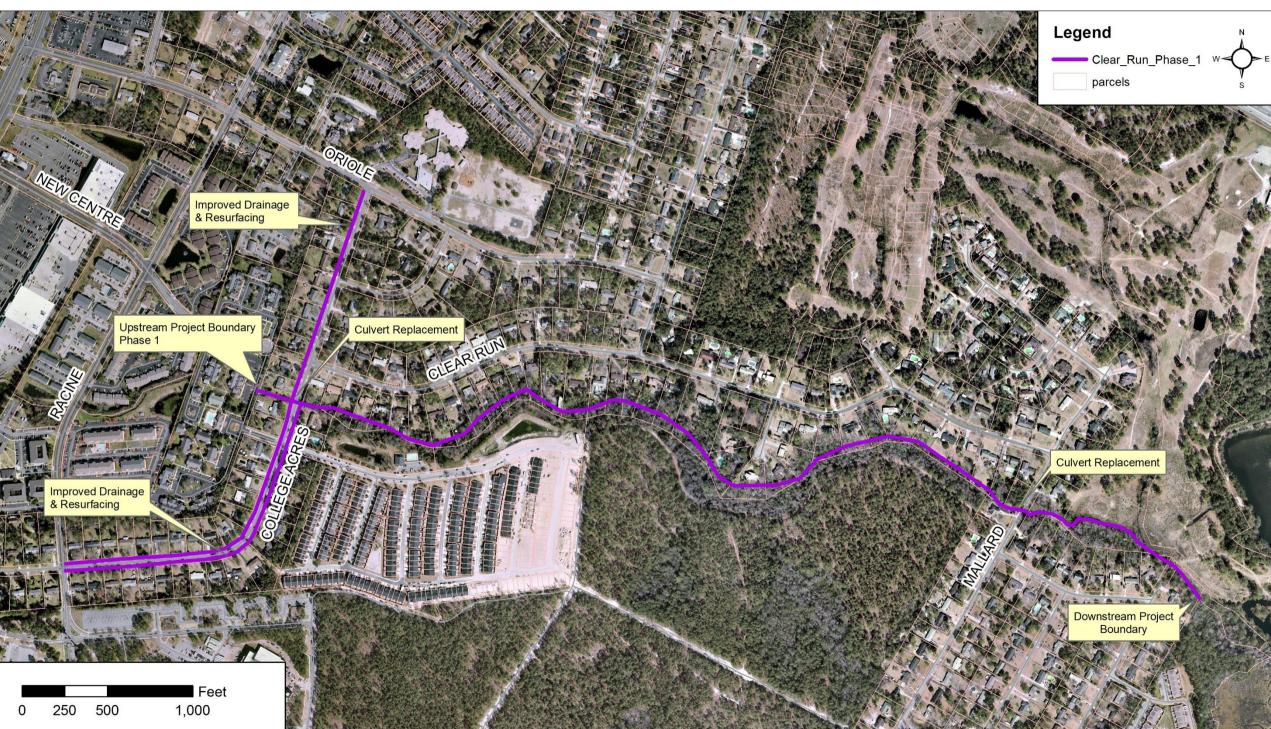
Clear Run Branch Drainage Improvements

Second Public Meeting

October 1, 2015



Project Extent and Key Elements





Project Objectives

- Improve Drainage
 - Channel Improvements
 - Debris Removal
 - Replacement of Culverts
 - Establishment of easement for access to perform long-term drainage maintenance along Clear Run.
- Construct a Stable and Healthy Stream
 - Alleviate Stream Instability and Bank Erosion
 - Improve Stream Habitat
 - Improve Water Quality



Outcomes from First Public Meeting

- Comments: Model was over predicting flooding
 - Model was calibrated based on meeting input and gage data collected for the project
- Comments: Concerns expressed regarding construction access through private lots
 - Maintenance easements being established so construction can access from the south side and the ends of the project

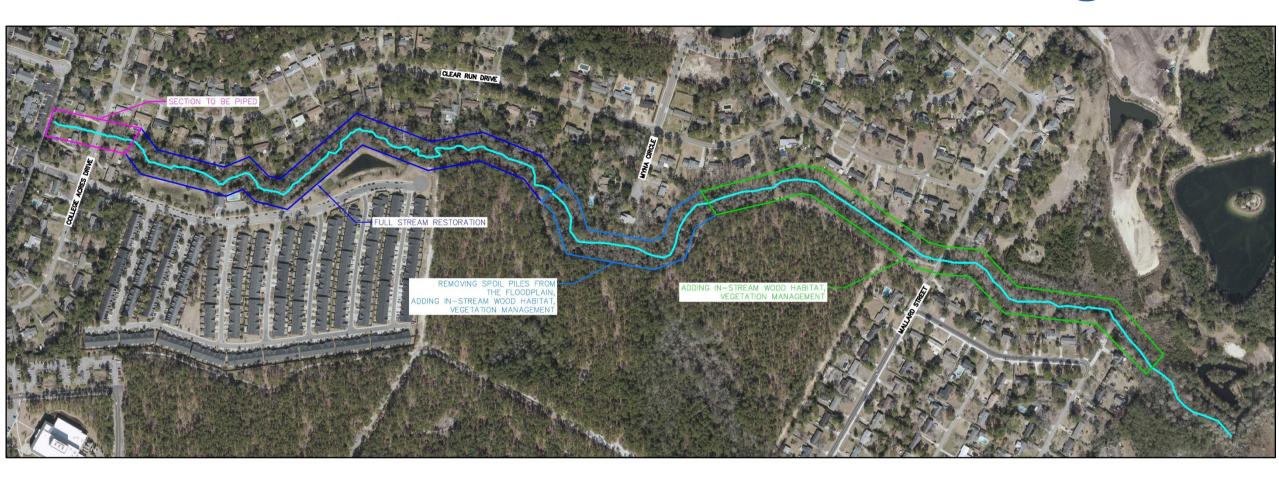


Modeling & Assessment of Existing Stream Conditions





Important Project Segments







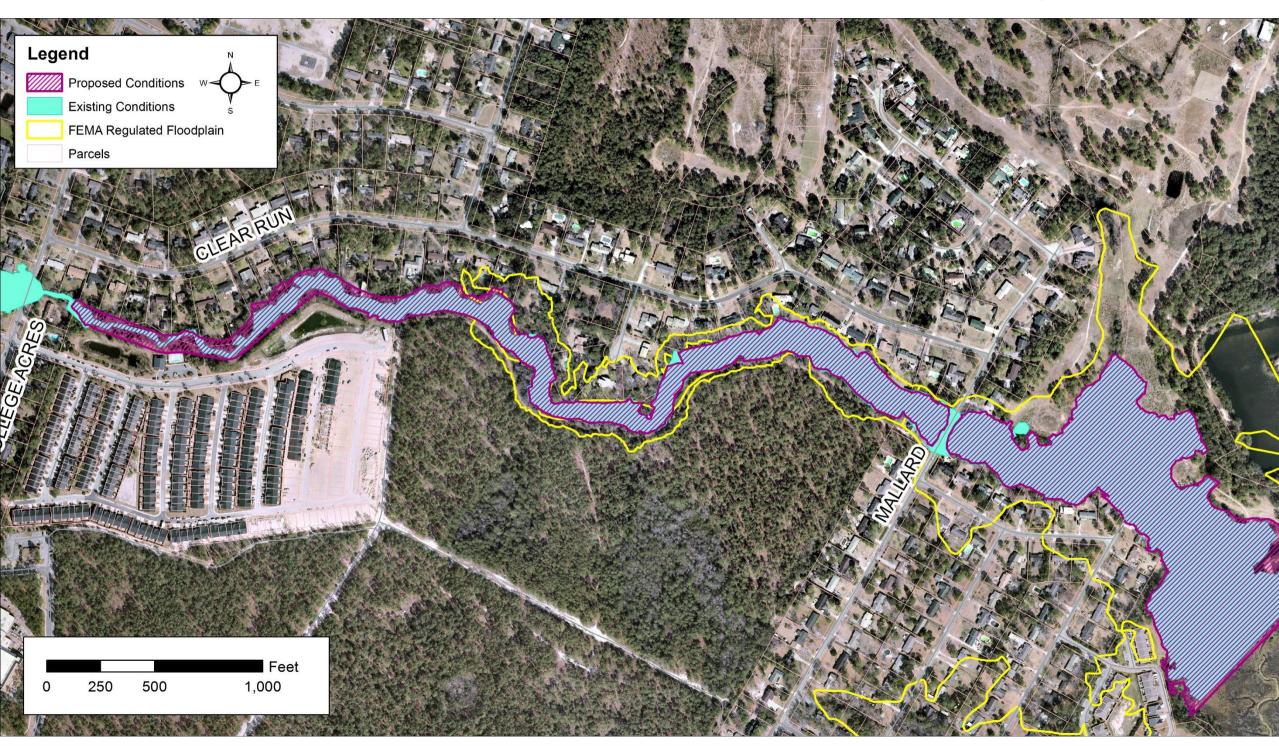
Stream Restoration Concepts

After

Before



Proposed Floodplain Impacts 25-Year Design Storm



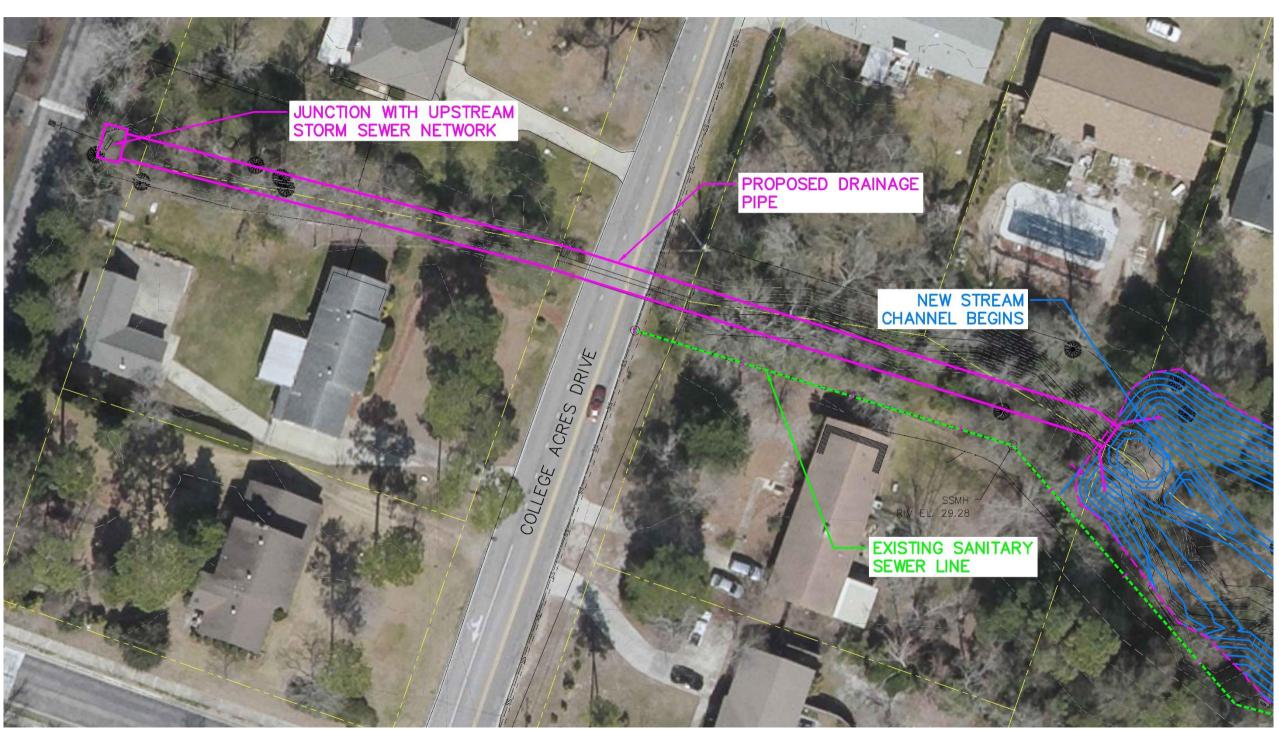


Design Challenges

- College Acres Drive Crossing
 CHALLENGE: Structures Very Close to the Stream
 SOLUTION: Piping a Segment of the Stream
- Narrow Corridor at Carleton Place Pool
 CHALLENGE: Insufficient Room for Floodplain
 SOLUTION: Short Retaining Wall to Protect Pool
 CHALLENGE: Proposed Stream Crosses Sewer Line
 SOLUTION: Small Segment of Sewer Line Rerouted

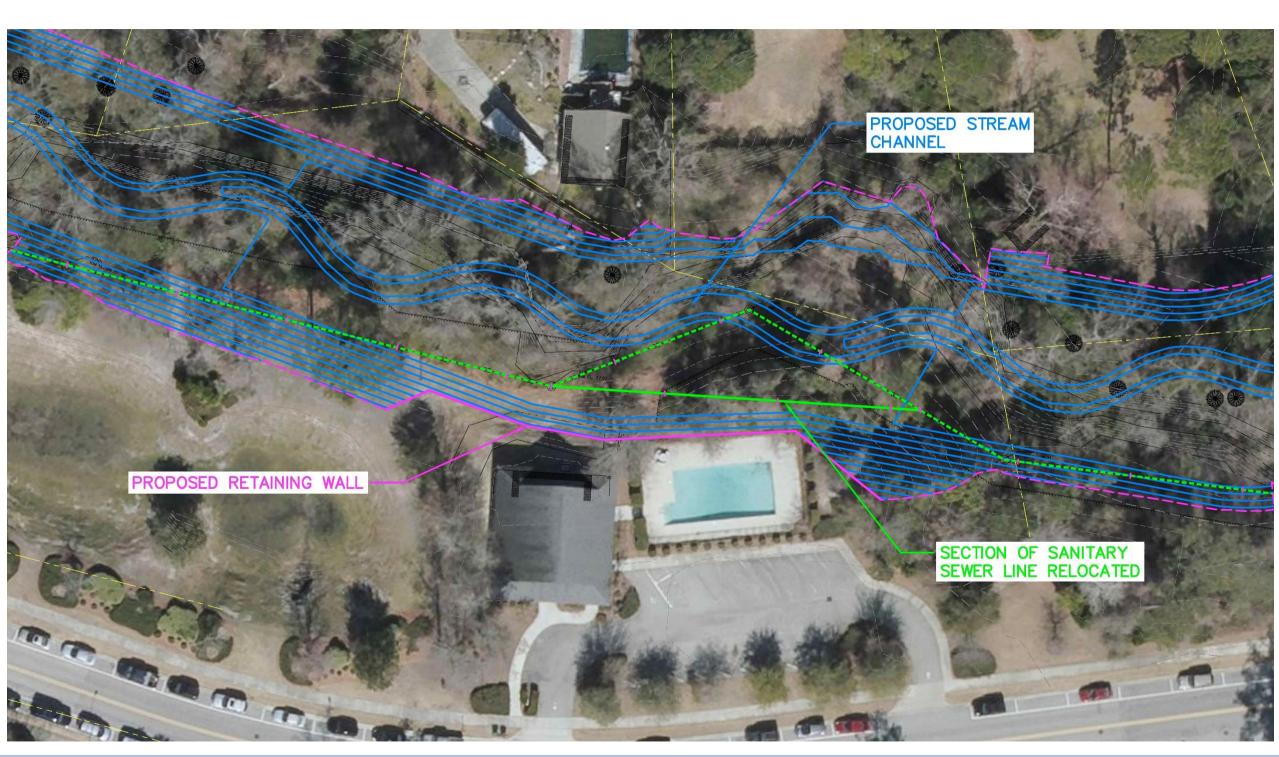


Key Design Element College Acres Crossing





Key Design Element Pinch Point Near Pool





Key Design Element Mallard Drive Culvert



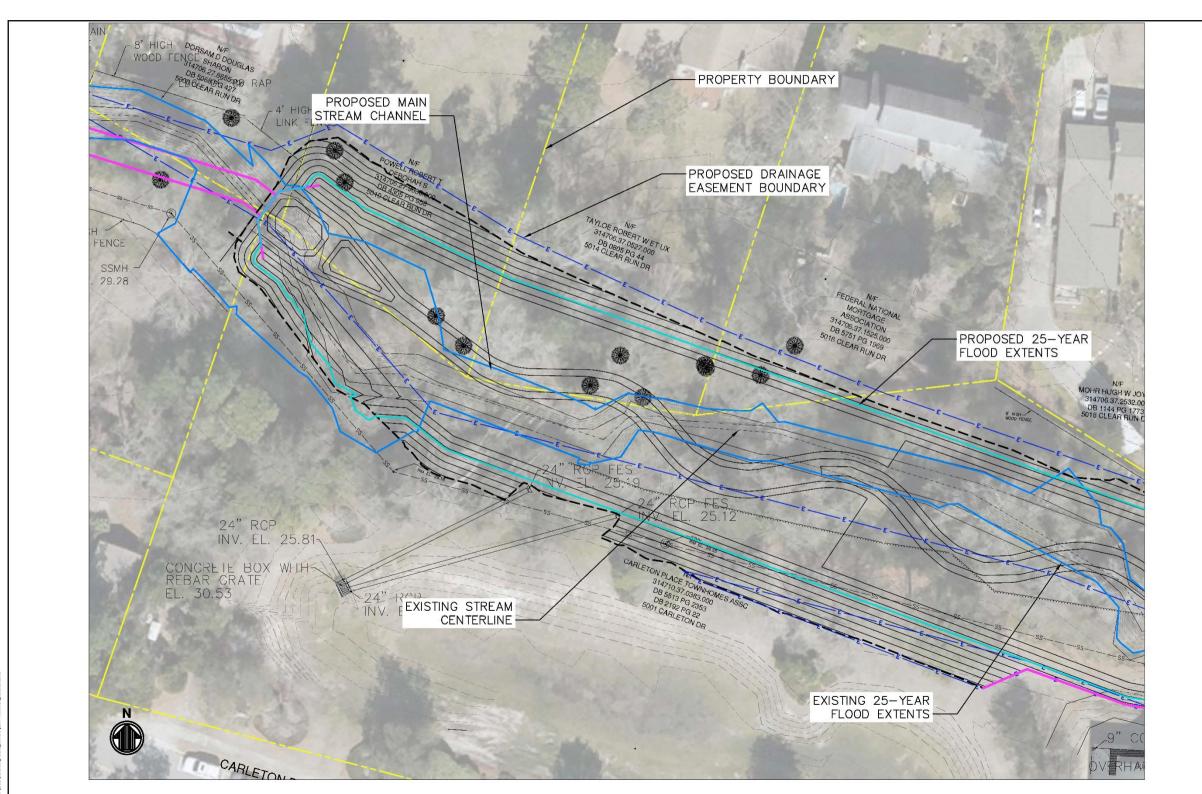


Key Design Element - College Acres Drive Drainage Improvements





Information at Stations



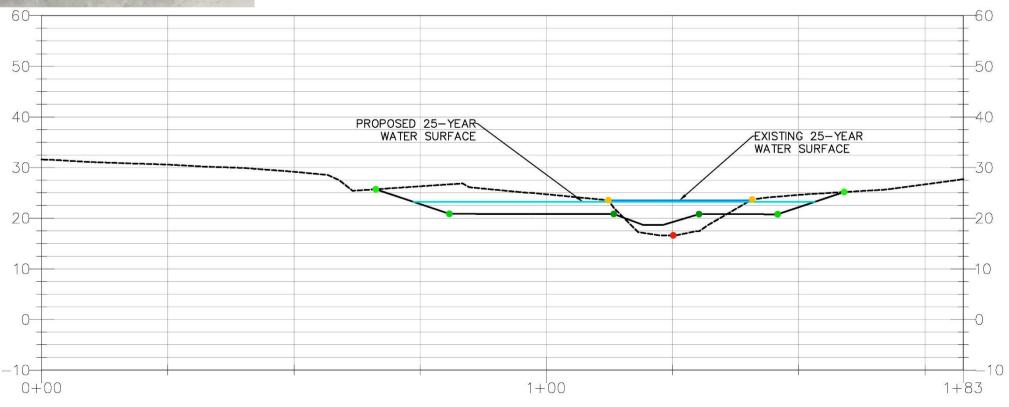
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SECTION D-COLOR CODED BREAK POINTS

Information at Stations

Cross Sections





End of Presentation

Please visit one of our information stations and submit comments.

October 1, 2015

